

CVP/SWP TUCP Orders by Date And Names of Modified Objectives (targeted beneficial use)	Authorized Modifications	Approved Objective <u>San Francisco Bay/Sacramento San Joaquin Delta WQCP</u>
<u>1/31/2014</u> (p. 13, expires 7/30/14)  DELTA OUTFLOW (fish and wildlife)  EXPORT LIMITS (fish and wildlife)  DELTA CROSS CHANNEL GATE (fish and wildlife)	February Minimum NDOI = 3,000 cfs, monthly average  February 1,500 cfs maximum rate at pumping plants  OPEN pending advice from fisheries agencies	February – June  Minimum NDOI = 7,100 CFS or 2.65 mmohs/cm at Collinsville, see map. Plus required salinity days in Table 4, footnote 11.  February  45% Delta Inflow can be diverted through CVP/SWP see footnote 22 of WQCP for specific February percentage in drought years.  CLOSED Feb – May 20
<u>2/7/2014</u> (p. 13, expires 7/30/14)  EXPORT LIMITS (fish and wildlife)	February 1,500 cfs maximum rate at pumping plants when Delta Outflow requirement is not met and DCC is open.  Authorizes diverting up to 45% of natural, abandoned, or transferred Delta Inflow after precipitation events if original NDOI is met (or salinity at Collinsville) and DCC is closed.	February -- 45% Delta Inflow can be diverted through CVP/SWP, see footnote 22 of WQCP for specific February percentage in drought years.
<u>2/28/2014</u> (p. 13, expires 7/30/14)  DELTA OUTFLOW (fish and wildlife)	February and March  Minimum NDOI = 3,000 cfs, monthly average	February – June  Minimum NDOI = 7,100 CFS or 2.65 mmohs/cm at Collinsville, see map. Plus required salinity days in Table 4,

		footnote 11.
<u>3/18/2014</u> (p. 7, expires 7/30/14)  EXPORT LIMITS (fish and wildlife)	February and March  1,500 cfs maximum rate at pumping plants when Delta Outflow requirement is not met and DCC is open.  Authorizes diverting up to 35% of natural, abandoned, or transferred Delta Inflow after precipitation events if original NDOI is met (or salinity at Collinsville) and DCC is closed. Eliminates required salinity days in the Delta Outflow Objective (see Table 4 footnotes 11 WQCP).	Feb to June  35% Delta Inflow can be diverted through CVP/SWP
<u>4/9/2014</u> (p. 8, expires 7/30/14)  DELTA OUTFLOW (fish and wildlife)  EXPORT LIMITS (fish and wildlife)	February, March, and April  -- same as 1/31/14 Order, just extended to April  February, March, and April  -- same as 3/18/14 Order, just extended to April	February – June  Minimum NDOI = 7,100 CFS or 2.65 mmohs/cm at Collinsville, see map. Plus required salinity days in Table 4, footnote 11.  Feb to June  35% Delta Inflow can be diverted through CVP/SWP
<u>4/11/2014</u> (p.7, expires 7/30/14)  RIVER FLOWS – San Joaquin River (fish and wildlife)  (fish migration)	April 11 – April 14 Minimum flows of 700 cfs  Start and end date of 31-day period will be determined in consultation with NMFS and FWS 16 days at 3,300 cfs 15 days at 1,500 cfs  End of pulse flow to May 31	February to April 14 Minimum flows of 7,10 - 1,140 CFS  April 15 – May 15 pulse flow (31 days)  3,100 – 3,550 CFS in San Joaquin River at Vernalis  May 16 - June

	<p>Minimum flow of 500 cfs</p> <p>June flows shall be maintained to meet salinity requirements at Vernalis.</p>	<p>Minimum flows of 710 -1,140 CFS</p> <p>May 16 - June Minimum flows of 710 -1,140 CFS</p>
<p><u>4/18/2014</u> (p. 7, expires 7/30/14)</p> <p>EXPORT LIMITS (fish and wildlife)</p>	<p>April through May San Joaquin River pulse flow period</p> <p>Up to 100 percent of the 3-day running average of San Joaquin River flows at Vernalis or 1,500 cfs, whichever is greater when the Delta Outflow requirement in footnote 10 of Table 3 in D-1641 is not being met as described in the 3/18/14 order.</p>	<p>Feb to June</p> <p>35% Delta Inflow can be diverted through CVP/SWP</p>
<p><u>5/2/2014</u> (p. 12, expires 1/27/15)</p> <p>DELTA OUTFLOW (fish and wildlife)</p> <p>SAC RIV SALINITY (agriculture/irrigation)</p> <p>RIVER FLOWS - SAC RIVER (fish and wildlife)</p> <p>EXPORT LIMITS (fish and wildlife)</p>	<p>February, March, April, May and June Minimum NDOI = 3,000 cfs monthly average</p> <p>7-day running average cannot be less than 1000 cfs below the monthly average</p> <p>Compliance location on Sacramento River is moved from Emmaton four miles upstream to Threemile Slough</p> <p>September – November minimum flows 2,000 cfs monthly average, 7-day running average must not be less than 1,500 cfs.</p> <p>May 2, 2014 – January 27, 2015</p> <p>1,500 cfs maximum rate at pumping plants when Delta Outflow, Sac River flow and EC, and DCC requirement are not met.</p>	<p>February – June Minimum NDOI = 7,100 CFS or 2.65 mmohs/cm at Collinsville, see map. Plus required salinity days in Table 4, footnote 11.</p> <p>April 1 – August 15 EC at Emmaton 2.78 mmhos/cm</p> <p>September &amp; October minimum flows 3,000 cfs monthly average</p> <p>November – December 3,500 cfs monthly average</p> <p>Feb to June 35% Delta Inflow can be diverted by CVP/SWP</p> <p>July – January 65% Delta Inflow can be diverted by CVP/SWP</p>

	Up to 100 percent of the 3-day running average of San Joaquin River flows at Vernalis or 1,500 cfs, whichever is greater, provided DWR and Reclamation are complying with D-1641 requirements as modified by this Order.	
<u>10/07/2014</u> (p. 10, expires 1/27/15)		
RIVER FLOWS – SJR Fall Pulse Flow (fish and wildlife)	31-day pulse flow sometime in October - November 800 cfs monthly average at Vernalis	October, 31-day pulse flow 1,000 cfs monthly average at Vernalis
<u>02/03/2015</u> (p. 21 expires 3/31/15)		
DELTA OUTFLOWS (fish and wildlife)	February - March  Minimum NDOI = 4,000 cfs, monthly average; 7-day running average cannot be less than 1000 cfs below the monthly average.	February – June  Minimum NDOI = 7,100 CFS or 2.65 mmohs/cm at Collinsville, see map. Plus required salinity days in Table 4, footnote 11.
RIVER FLOWS – SJR MIN FLOW (fish and wildlife)	February – March flows at Vernalis 500 cfs minimum monthly average	February – April 14 flow at Vernalis 2,130 – 3,420 cfs minimum monthly average
DCC GATE CLOSURE (fish and wildlife)	February – March OPEN and subject to closure gate triggers identified in 2014 Drought Operations Plan	Feb – May 20 CLOSED
EXPORT LIMITS (fish and wildlife)	February – March Exports greater than 1,500 cfs and up to the original standard are authorized after precipitation events that allow DCC to be closed and Delta Outflow to be 7100 cfs (or 2.64 mmhos/cm) but the other requirements outlined in Table 4 are not being met.  1,500 cfs maximum rate at pumping plants when Delta Outflow requirement is not met and DCC is open.  Original export rates apply when full compliance with	Feb to June 35% Delta Inflow can be diverted by CVP/SWP  45% of Delta Inflow can be diverted in February of critically dry years.

	Delta Outflow and DCC requirements are achieved.	
<u>03/05/2015</u> (p. 29 expires 3/31/15)		
EXPORT LIMITS (fish and wildlife)	February – March  Prior modifications carried forward plus the following:  3,500 cfs maximum pumping rate is authorized when Delta Outflow and DCC requirements are NOT being met IF DWR or Reclamation can show they need water to meet minimum health and safety needs of their contractors.	Feb to June 35% Delta Inflow can be diverted by CVP/SWP  45% of Delta Inflow can be diverted in February of critically dry years.
<u>04/06/2015</u> (p. 37 expires 6/30/15)		
DELTA OUTFLOW (fish and wildlife)	February to June All prior modifications remain. The time period was extended to include April, May, and June.	February – June Minimum NDOI = 7,100 CFS or 2.65 mmohs/cm at Collinsville, see map. Plus required salinity days in Table 4, footnote 11
RIVER FLOWS – SJR SPRING PULSE (fish and wildlife)	April 6 – April 25, 2015 pulse flow (20 days) 710 cfs in San Joaquin River at Vernalis and comply with NMFS flow schedule in BO	April 15 – May 15 pulse flow (31 days) 3,100 – 3,550 CFS in San Joaquin River at Vernalis
RIVER FLOWS – SJR MINIMUM (fish and wildlife)	April 26 – May 31 minimum flow rate 300 cfs, with the 7-day running average no less than 20% below 300 cfs.  June 200 cfs, with the 7-day running average no less than 20% below 200 cfs.	May 16 - June Minimum flows of 710 -1,140 CFS
SACRAMENTO RIVER SALINITY (agriculture/irrigation)	April, May, and June Compliance location on Sacramento River is moved from Emmaton four miles upstream to Threemile Slough	April 1 – August 15 EC at Emmaton 2.78 mmhos/cm
DCC GATE CLOSURE	April 1 – May 20	Feb – May 20

<p>(fish and wildlife)</p> <p>EXPORT LIMITS (fish and wildlife)</p>	<p>OPEN and subject to closure gate triggers identified in 2014 Drought Operations Plan</p> <p>April, May, and June</p> <p>All former changes carried forward with the following modification:</p> <p>3,500 cfs maximum pumping rate is authorized when Delta Outflow and DCC requirements are NOT being met when representatives of the fisheries agencies, the State Water Board, DWR, and Reclamation agree that the increase in the export rate can be implemented without causing unreasonable harm to fish or wildlife.</p>	<p>CLOSED</p> <p>Feb to June</p> <p>35% Delta Inflow can be diverted by CVP/SWP</p> <p>45% of Delta Inflow can be diverted in February of critically dry years.</p>
<p><u>July 3, 2015</u> (p. 26 expires 12/30/15)</p> <p>DELTA OUTFLOW (fish and wildlife)</p> <p>RIVER FLOWS – SAC R MINIMUM (fish and wildlife)</p> <p>SACRAMENTO RIVER SALINITY (agriculture/irrigation)</p>	<p>July</p> <p>3,000 CFS, on a monthly average. The 7-day running average shall be no less than 1,000 cfs below the monthly average.</p> <p>September, October, November</p> <p>2,500 cfs monthly average. The 7-day running average shall be no less than 2,000 cfs below the monthly average.</p> <p>July 3, 2015 – August 15, 2015</p> <p>Compliance location on Sacramento River is moved from Emmaton four miles upstream to Threemile Slough</p>	<p>July</p> <p>4,000 cfs monthly average</p> <p>September &amp; October minimum flows</p> <p>3,000 cfs monthly average</p> <p>November – December</p> <p>3,500 cfs monthly average</p> <p>April 1 – August 15</p> <p>EC at Emmaton 2.78 mmhos/cm</p>
<p>EXPORT LIMITS (fish and wildlife)</p>	<p>July 3 – 2015</p> <p>Exports limited to 1,500 cfs combined CVP/SWP pumping rate when Delta outflow, Rio Vista flow, and Emmaton EC requirements are not being met.</p> <p>Original export limits apply if precipitation events occur that enable DWR and Reclamation to fully comply with</p>	<p>Feb to June</p> <p>35% Delta Inflow can be diverted by CVP/SWP</p> <p>45% of Delta Inflow can be diverted in February of critically dry years.</p>

	Delta outflow, Rio Vista flow, and Emmaton EC requirements, except that any SWP and CVP exports greater than 1,500 cfs shall be limited to natural or abandoned flow, or transfers.	
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